



huang 113297

IN THE UNITED STATES
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Patent Application

Inventor(s)	Justin Che-I Chuang Xiaoxin Qiu	Case Name	Chuang 113297
Filing Date	8/9/1999	Serial No.	09/370,770
Examiner	David B. Lugo	Group Art Unit	2634
Title	Link Adaptation in Wireless Data Networks for Throughput Maximization Under Retransmissions		

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AMENDMENT

In response to an Office action dated July 31, 2002 please amend the above-identified application as follows:

IN THE CLAIMS : (entire set of claims)

1. A method for performing wireless link adaptation in a retransmission environment comprising the steps of:
 - (a) determining a threshold value corresponding to each of at least one link adaptation modes using a retransmission model;
 - (b) measuring a signal quality value at a receiver;
 - (c) selecting a best link adaptation mode by comparing the signal quality value to the threshold value corresponding to each of the at least one link adaptation modes; and
 - (d) adjusting at least one of a modulation scheme and a coding scheme based upon the best link adaptation mode.
2. The method according to claim 1, wherein the step of determining a threshold value corresponding to each of at least one link adaptation modes further includes the steps of for each retransmission mode, determining a corresponding throughput function using at least a radio interference rate value and a block error rate value.